



### EXPLANATION

- Area of the Appalachian basin coal region**
- Pennsylvanian percent vitrinite reflectance (% $R_0$ )**—Dashed where approximate.  
Isograds are shown in 0.2-% $R_0$  intervals, except in the Pennsylvania Anthracite region, in which intervals are 0.5 % $R_0$  because data are sparse
- Middle and Upper Devonian percent vitrinite reflectance (% $R_0$ )**—Isograds are shown in 0.5-% $R_0$  intervals (Repetski and others, this volume, chap. F.1)
- Allegheny structural front (ASF)**
- Structural discontinuity**—P-WSD, Pittsburgh-Washington; T-MUSD, Tyrone-Mount Union
- Normal fault**—HF, Highlandtown; PF, Pottchunk

**Figure 8.** Map of Pennsylvanian percent-vitrinite-reflectance (% $R_0$ ) isograds superimposed on Upper Devonian dispersed percent-vitrinite-reflectance isograds of Repetski and others (2008, this volume, chap. F.1) in the Pennsylvania Anthracite region and in the Main bituminous coal field in Pennsylvania. Several of the Devonian percent-vitrinite-reflectance values were not used for contouring because the values were anomalously low in comparison to control points; they include 0.46 % $R_0$  (Sullivan County), 0.95 % $R_0$  (Schuylkill County), 0.58 % $R_0$  (Tioga County), and 1.45 % $R_0$  (Bradford County).